



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

() Preliminary Specification

(V) Final Specification

Module	15.6" Color TFT-LCD
Model Name	G156XW01 V0

Customer	Date
_____	_____
Approved by	
_____	_____
Note: This Specification is subject to change without notice.	

Approved by	Date
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Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

Contents

1.0 Handling Precautions	4
2.0 General Description.....	5
2.1 Display Characteristics.....	5
2.2 Optical Characteristics	6
3.0 Functional Block Diagram.....	10
4.0 Absolute Maximum Ratings	11
4.1 TFT LCD Module	11
4.2 Backlight Unit.....	11
4.3 Absolute Ratings of Environment.....	11
5.0 Electrical characteristics.....	12
5.1 TFT LCD Module	12
5.1.1 Power Specification.....	12
5.1.2 Signal Electrical Characteristics.....	13
5.2 Backlight Unit.....	14
6.0 Signal Characteristic	16
6.1 Pixel Format Image	16
6.2 The input data format	16
6.3 Signal Description	17
6.4 Timing Characteristics	18
6.5 Timing diagram	19
6.6 Power ON/OFF Sequence	20
7.0 Connector & Pin Assignment.....	21
7.1 TFT LCD Module	21
7.1.1 Pin Assignment	21
7.2 Backlight Unit.....	22
7.2.1 Signal for Lamp connector.....	22
8.0 Reliability Test	23
9.0 Shipping Label	24
10.0 Mechanical Characteristics	25



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

Record of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2009/10/05		First Edition for Customer	N/A	
0.2 2009/11/30	11	4.2 Backlight Unit CCFL Current Max. 7.5	4.2 Backlight Unit CCFL Current Max. 8.0 Delete CCFL Current Min.	
	14	CCFL Operation Current (IRCFL) Max. 7.5	1. Delete CCFL Standard Current (ISCFL) 2. CCFL Operation Current (IRCFL) Max. 8.0. 3. Delete CCFL Operation Current Min. 4. Delete CCFL Life Time Typ.	
	15	Note 7: Definition of life time: brightness becomes 50%. The minimum life time of CCFL unit is on the condition of 7.5mA CCFL current (Maximum value)and 25±2 °C.	Note 7: Definition of life time: brightness becomes 50%. The minimum life time of CCFL unit is on the condition of 7.5mA CCFL current and 25±2°C.	
0.3 2009/12/30	12	IDD Input Current Typ. 0.75; Max. 0.855 PDD VDD Power Typ. 3.75; Max. 4.25	IDD Input Current Typ. 0.43; Max. 0.5 PDD VDD Power Typ. 2.15; Max. 2.5	
1.0 2009/12/30	All	Final Version		
1.1 2010/4/8	5		Add Temperature Range Operating 0~50 °C Storage (Non-Operating) -20~60 °C	
	18	6.4 Timing Characteristics Data CLK Min 50 MHz	6.4 Timing Characteristics Data CLK Min 60 MHz	
1.2 2011/3/10	25		Delete the PN number in the drawing	
	26		Delete the PN number in the drawing	



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

1.0 Handling Precautions

- 1) Since front polarizer is easily damaged, pay attention not to scratch it.
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- 4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
- 5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- 6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.
- 7) Do not open or modify the Module Assembly.
- 8) Do not press the reflector sheet at the back of the module to any directions.
- 9) In case if a Module has to be put back into the packing container slot after once it was taken out from the container, do not press the center of the CCFL reflector edge. Instead, press at the far ends of the CCFL Reflector edge softly. Otherwise the TFT Module may be damaged.
- 10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- 11) After installation of the TFT Module into an enclosure, do not twist nor bend the TFT Module even momentary. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- 12) Cold cathode fluorescent lamp in LCD contains a small amount of mercury. Please follow local ordinances or regulations for disposal.
- 13) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.
- 14) The LCD module is designed so that the CCFL in it is supplied by Limited Current Circuit (IEC60950 or UL1950). Do not connect the CCFL in Hazardous Voltage Circuit.



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

2.0 General Description

This specification applies to the 15.6 inch-wide Color a-Si TFT-LCD Module G156XW01. The display supports the HD - 1366(H) x 768(V) screen format and 16.7M colors (RGB 6-bits + Hi-FRC data). All input signals are LVDS interface and this module doesn't contain an inverter board for backlight.

2.1 Display Characteristics

The following items are characteristics summary on the table under 25℃ condition:

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	15.6"
Active Area	[mm]	344.232 (H) x 193.536 (V)
Pixels H x V		1366(x3) x 768
Pixel Pitch	[um]	252 (per one triad) x252
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		TN Mode, Normally White
White Luminance (Center)	[cd/m ²]	300 cd/m ² (Typ.)
Contrast Ratio		500 (Typ.)
Optical Response Time	[msec]	8ms (Typ., on/off)
Nominal Input Voltage VDD	[Volt]	+5.0 V
Power Consumption (VDD line + CCFL line)	[Watt]	13.5 W (Typ.), 15 W (Max.) (without inverter, all black pattern)
Weight	[g]	1160 (Typ.), 1300(Max.)
Physical Size	[mm]	363.8(W) X 215.9(H) X 14.3(D) Typ.
Electrical Interface		One channel LVDS
Support Color		16.7M colors (RGB 6-bit + Hi-FRC)
Surface Treatment		Anti-Glare, 3H
RoHS Compliance		RoHS Compliance
Temperature Range		
Operating	[°C]	0 to +50
Storage (Non-Operating)	[°C]	-20 to +60
TCO'03 Compliance		TCO'03 Compliance



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

2.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25℃:

Item	Unit	Conditions	Min.	Typ.	Max.	Note
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	75 75	85 85	- -	1,2
		Vertical (Up) CR = 10 (Down)	70 70	80 80	- -	
		Horizontal (Right) CR = 5 (Left)	75 75	85 85	- -	
		Vertical (Up) CR = 5 (Down)	75 75	85 85	- -	
Contrast ratio		Normal Direction	350	500	-	3
Response Time	[msec]	Raising Time (T_{rR})	-	6	9	4
		Falling Time (T_{rF})	-	2	4	
		Raising + Falling	-	8	13	
Color / Chromaticity Coordinates (CIE)		Red x	0.608	0.638	0.668	5
		Red y	0.303	0.333	0.363	
		Green x	0.260	0.290	0.320	
		Green y	0.561	0.591	0.621	
		Blue x	0.123	0.153	0.183	
		Blue y	0.052	0.082	0.112	
Color Coordinates (CIE) White		White x	0.283	0.313	0.343	
		White y	0.299	0.329	0.359	
Central Luminance	[cd/m ²]		240	300	-	6
Luminance Uniformity	[%]		75	80	-	7
Crosstalk (in 60Hz)	[%]				1.5	8
Flicker	dB				-20	9



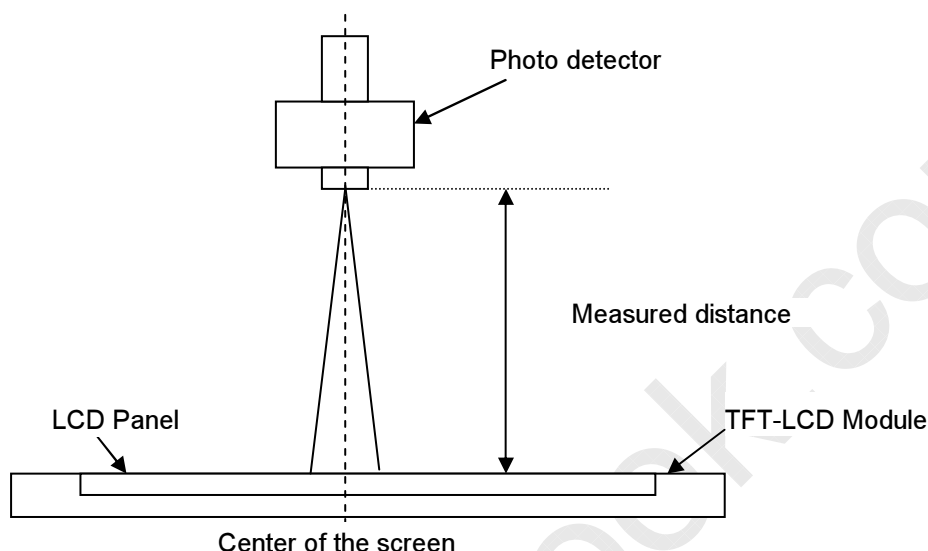
Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

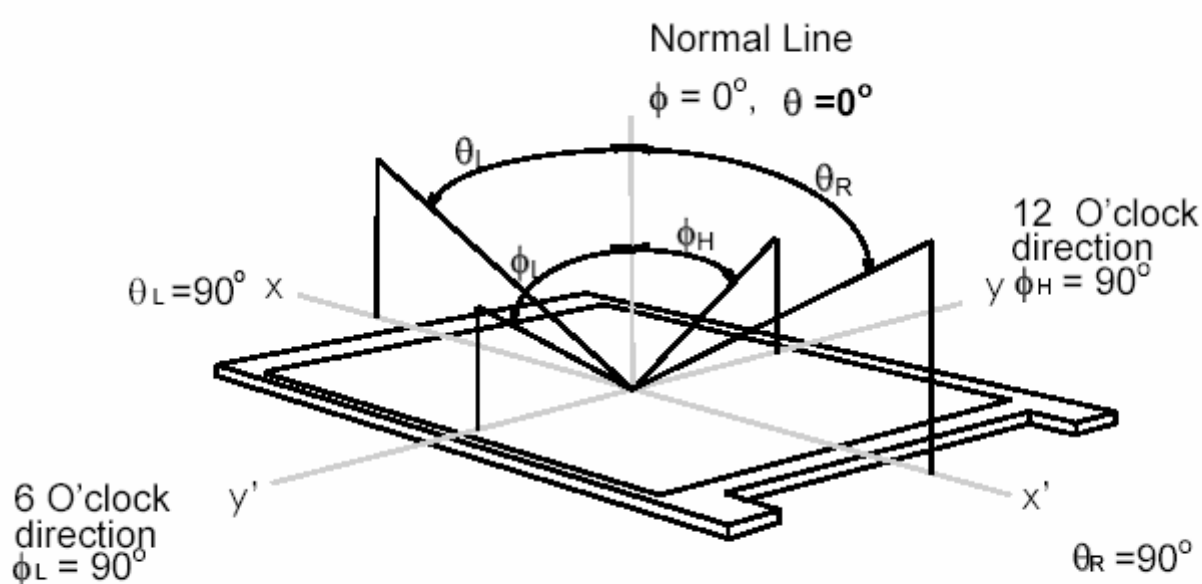
Note 1: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring (at surface 35°C). In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room.



Note 2: Definition of viewing angle measured by ELDIM (EZContrast 88)

Viewing angle is the measurement of contrast ratio ≥ 10 and ≥ 5 , at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° (θ) horizontal left and right and 90° (ϕ) vertical, high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated about its center to develop the desired measurement viewing angle.





Product Specification

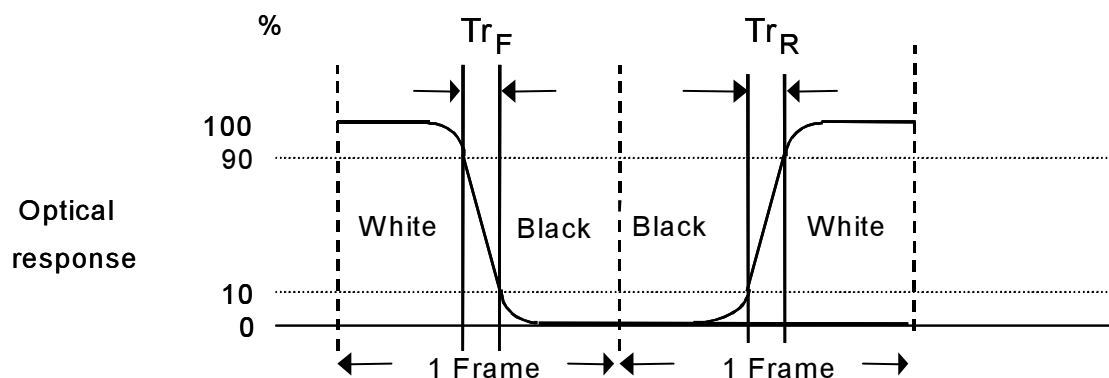
G156XW01 V0

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Note 3: Contrast ratio is measured by TOPCON SR-3

Note 4: Definition of Response time measured by Westar TRD-100A

The output signals of photo detector are measured when the input signals are changed from "Full Black" to "Full White" (rising time, Tr_R), and from "Full White" to "Full Black" (falling time, Tf_F), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.

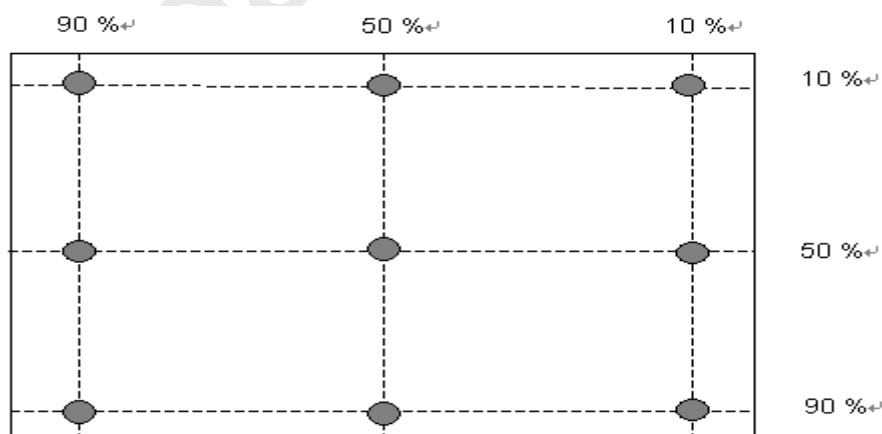


$Tr_R + Tf_F = 8 \text{ msec (typ.)}$.

Note 5: Color chromaticity and coordinates (CIE) is measured by TOPCON SR-3

Note 6: Central luminance is measured by TOPCON SR-3

Note 7: Luminance uniformity of these 9 points is defined as below and measured by TOPCON SR-3



$$\text{Uniformity} = \frac{\text{Minimum Luminance in 9 points (1-9)}}{\text{Maximum Luminance in 9 Points (1-9)}}$$



Product Specification

G156XW01 V0

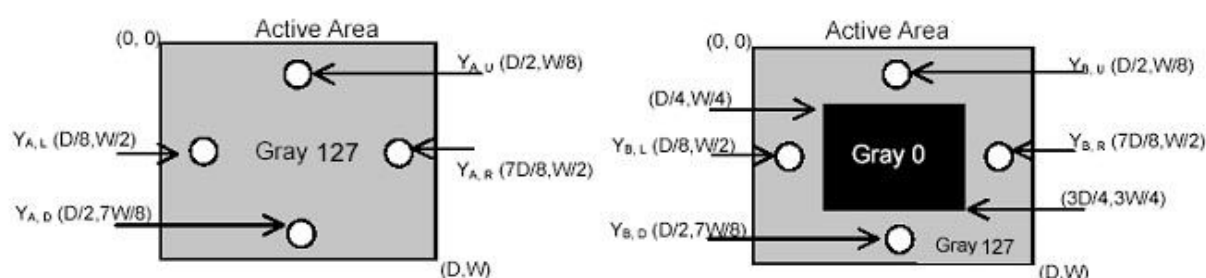
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Note 8: Crosstalk is defined as below and measured by TOPCON SR-3

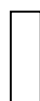
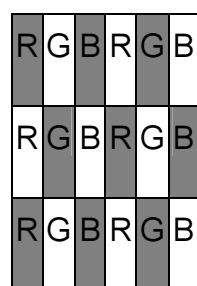
$CT = |YB - YA| / YA \times 100 (\%)$, Where

YA = Luminance of measured location without gray level 0 pattern (cd/m²)

YB = Luminance of measured location with gray level 0 pattern (cd/m²)



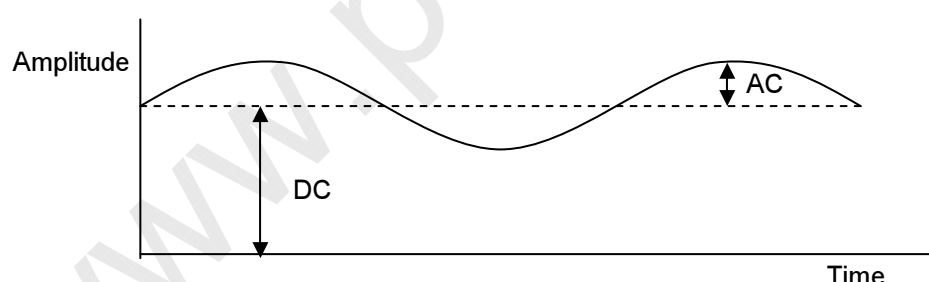
Note 9: Test Pattern: Subchecker Pattern measured by TOPCON SR-3



Gray Level = L127

Gray Level = L0

Method: Record dBV & DC value with TRD-100



$$\text{Flicker (dB)} = 20 \log \frac{\text{AC Level (at 30 Hz)}}{\text{DC Level}}$$



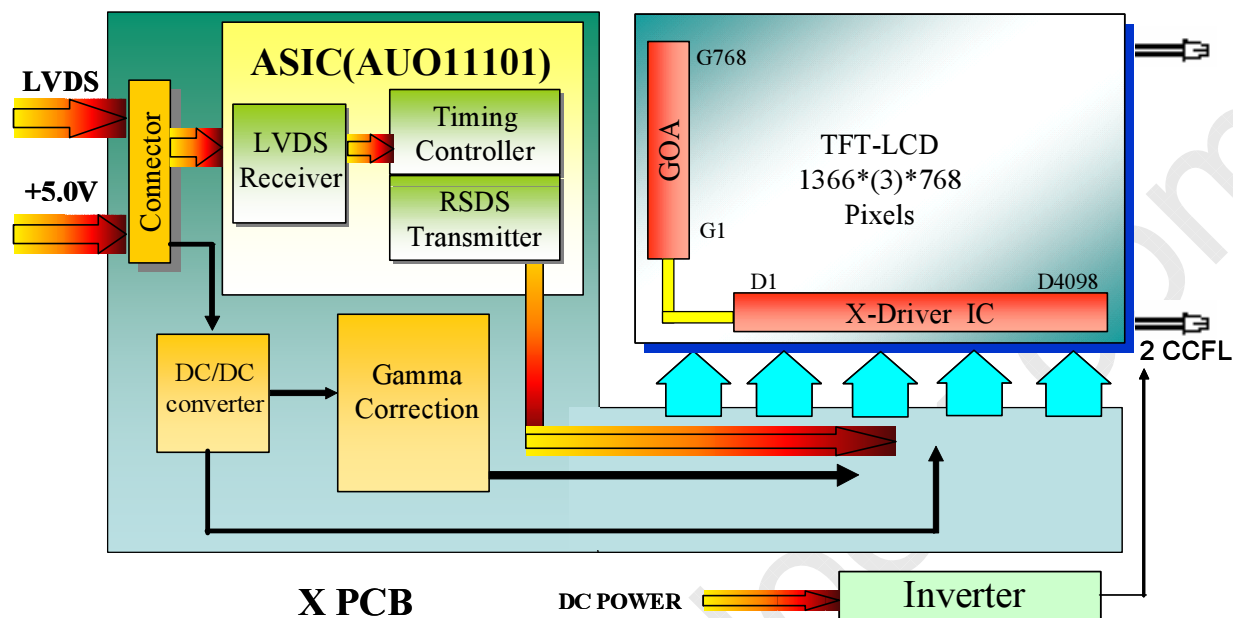
Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

3.0 Functional Block Diagram

The following diagram shows the functional block of the 15.6 inch Color TFT-LCD Module:



I/F PCB Interface:

JAE / FI-XB30SSL-HF15

STM / MSBKT2407P30HB

Mating Type:

FI-X30HL (Locked Type)



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

4.0 Absolute Maximum Ratings

Absolute maximum ratings of the module are as following:

4.1 TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	VDD	0	6.0	[Volt]	Note 1,2

4.2 Backlight Unit

Item	Symbol	Min	Max	Unit	Conditions
CCFL Current	ICFL	-	8.0	[mA] rms	Note 1,2

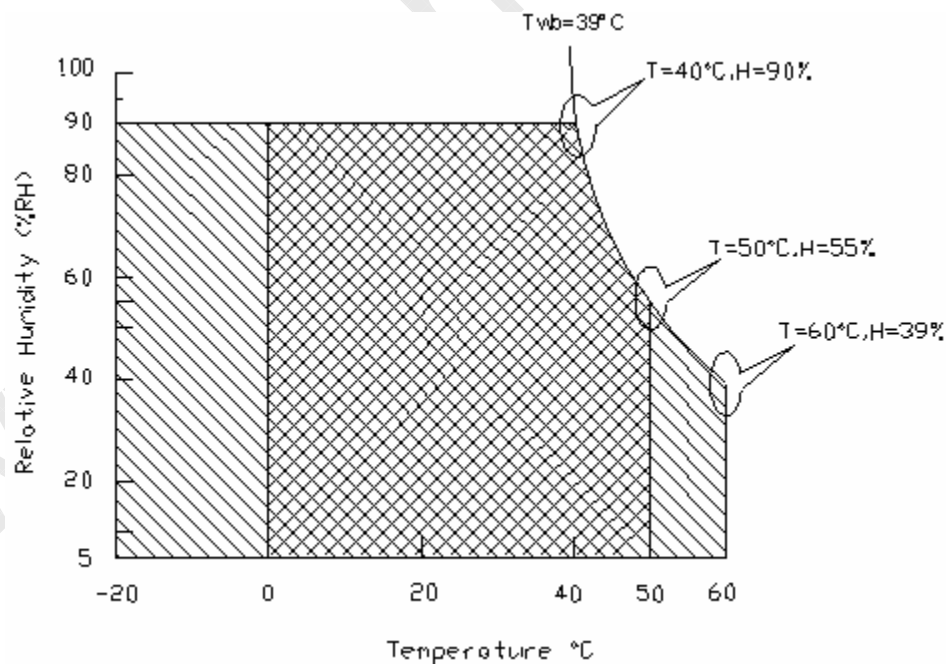
4.3 Absolute Ratings of Environment

Item	Symbol	Min.	Max.	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	Note 3
Operation Humidity	HOP	5	90	[%RH]	
Storage Temperature	TST	-20	+60	[°C]	
Storage Humidity	HST	5	90	[%RH]	

Note 1: With in Ta (25□)

Note 2: Permanent damage to the device may occur if exceeding maximum values

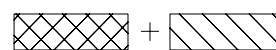
Note 3: For quality performance, please refer to AUO IIS(Incoming Inspection Standard).



Operating Range



Storage Range





Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

5.0 Electrical characteristics

5.1 TFT LCD Module

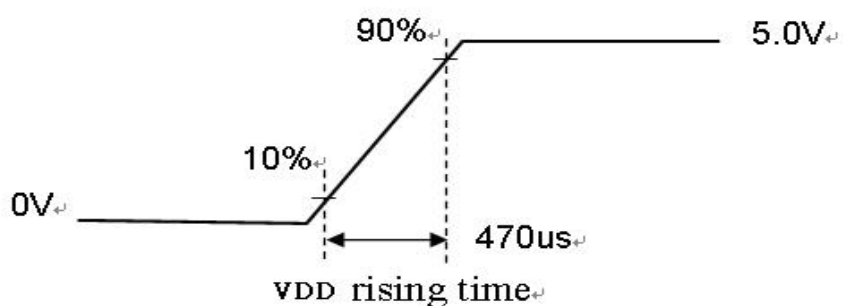
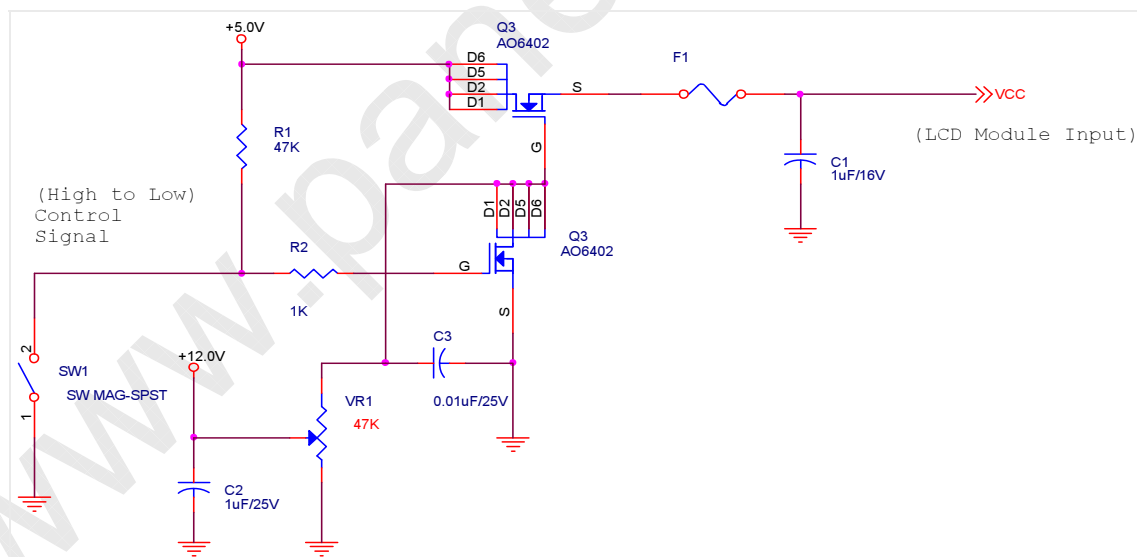
5.1.1 Power Specification

Input power specifications are as following:

Symbol	Parameter	Min	Typ	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5.0	5.5	[Volt]	+/-10%
IDD	Input Current	-	0.43	0.5	[A]	VDD= 5.0V, All Black Pattern At 60Hz
PDD	VDD Power	-	2.15	2.5	[Watt]	VDD= 5.0V, All Black Pattern At 60Hz
IRush	Inrush Current	-	-	2.5	[A]	Note 1
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	300	[mV] p-p	VDD= 5.0V, All Black Pattern At 60Hz

Note 1: Measurement conditions:

The duration of rising time of power input is 470 us.





Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

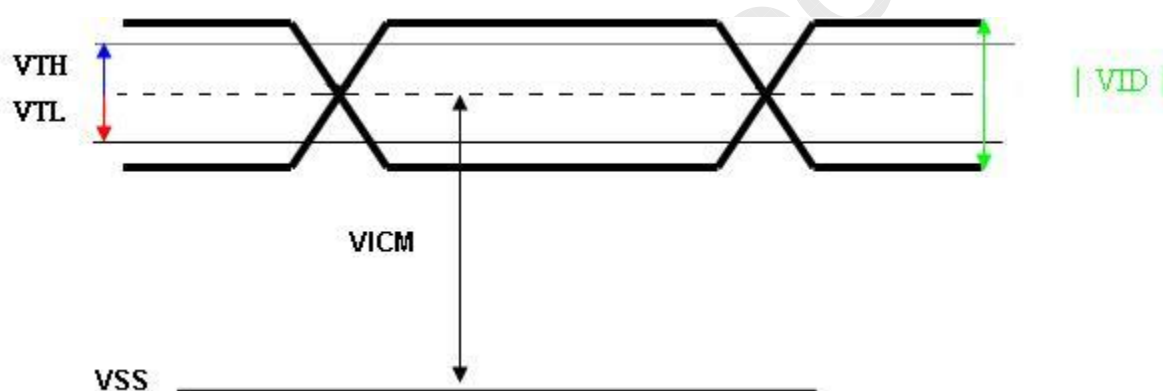
5.1.2 Signal Electrical Characteristics

Input signals shall be low or Hi-Z state when VDD is off. Please refer to specifications of SN75LVDS82DGG (Texas Instruments) in detail.

Characteristics of each signal are as following:

Symbol	Parameter	Min	Typ	Max	Units	Condition
VTH	Differential Input High Threshold	-	+50	+100	[mV]	VICM = 1.2V Note 1
VTL	Differential Input Low Threshold	-100	-50	-	[mV]	VICM = 1.2V Note 1
VID	Input Differential Voltage	100	-	600	[mV]	Note 1
VICM	Differential Input Common Mode Voltage	+1.0	+1.2	+1.5	[V]	VTH-VTL = 200mV (max) Note 1

Note 1: LVDS Signal Waveform





Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

5.2 Backlight Unit

Parameter guideline for CCFL Inverter is under stable conditions at 25℃ (Room Temperature):

Parameter	Min.□	Typ.	Max.□	Unit	Note
CCFL Operation Current (IRCFL)	-	7.5	8.0	[mA] rms	2
CCFL Frequency (FCFL)	40	43	60	[KHz]	3, 4
CCFL Ignition Voltage (ViCFL, Ta= 0□)	-	1170	1410	[Volt] rms	5
CCFL Ignition Voltage (ViCF, Ta= 25□)	-	970	1170	[Volt] rms	
CCFL Operation Voltage (VCFL)	594	660 (@7.5mA)	726	[Volt] rms	6
CCFL Power Consumption (PCFL)	-	10	-	[Watt]	
CCFL Life Time (LTCFL)	50,000	-	-	[Hour]	7

Note 1: Typ. values are AUO recommended design values.

*1 All of characteristics listed are measured under the condition using the AUO test inverter.

*2 It is recommended to check the inverter carefully. Sometimes, interfering noise stripes appear on the screen, and substandard luminance or flicker at low power may happen.

*3 While designing an inverter, it is suggested to check safety circuit very carefully. Impedance of CCFL, for instance, becomes more than 1 [M ohm] when CCFL is damaged.

*4 Generally, CCFL has certain delay time after applying kick-off voltage. It is recommended to keep on applying kick-off voltage for 1 [Sec] until discharge.

*5 Reducing CCFL current will increase CCFL discharge voltage and generally increases CCFL discharge frequency. So all the parameters of the inverter should be carefully designed so the inverter will not produce too much leakage current from high-voltage output.

*6 Both CCFLs in the CCFL set (1 CCFL lamps on each side of a panel) is designed for identical phase driving. Reversed phase driving of CCFL set is not encouraged.

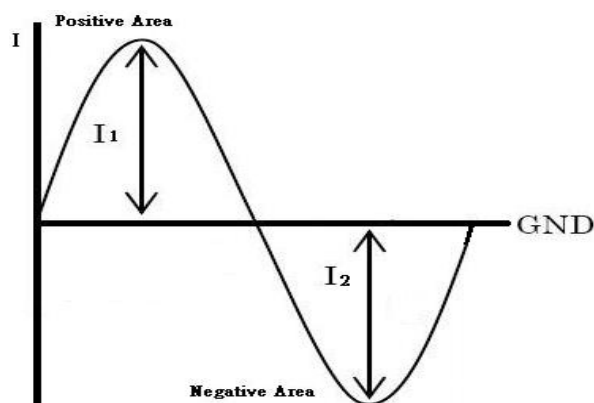
*7 For designing CCFL current, it is highly recommended to use symmetric and consistent sinusoidal wave for each CCFL input current with asymmetric ration of 10% or less in both positive area and negative area (ie. $0.9 \times \sqrt{2} \times I_{rms} < I_1 \text{ \& \; } I_2 < 1.1 \times \sqrt{2} \times I_{rms}$) as refer to the following diagram, otherwise proper CCFL functionality cannot be guaranteed.



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION



Note 2: CCFL standard current is measured at $25 \pm 2^\circ\text{C}$.

Note 3: CCFL discharge frequency should be carefully determined to avoid interference between inverter and TFT LCD.

Note 4: The frequency range will not affect lamp life and reliability characteristics.

Note 5: CCFL inverter should be able to release power that has generating capacity exceeding 1410 volt. Lamp units need maximum voltage, 1410 Volt, for ignition.

Note 6: The variance of CCFL power consumption is $\pm 10\%$. ($\text{IRCFL} \times \text{VCFL} \times 2 = \text{PCFL}$)

Note 7: Definition of life time: brightness becomes 50%. The minimum life time of CCFL unit is on the condition of 7.5mA CCFL current and $25 \pm 2^\circ\text{C}$.



Product Specification

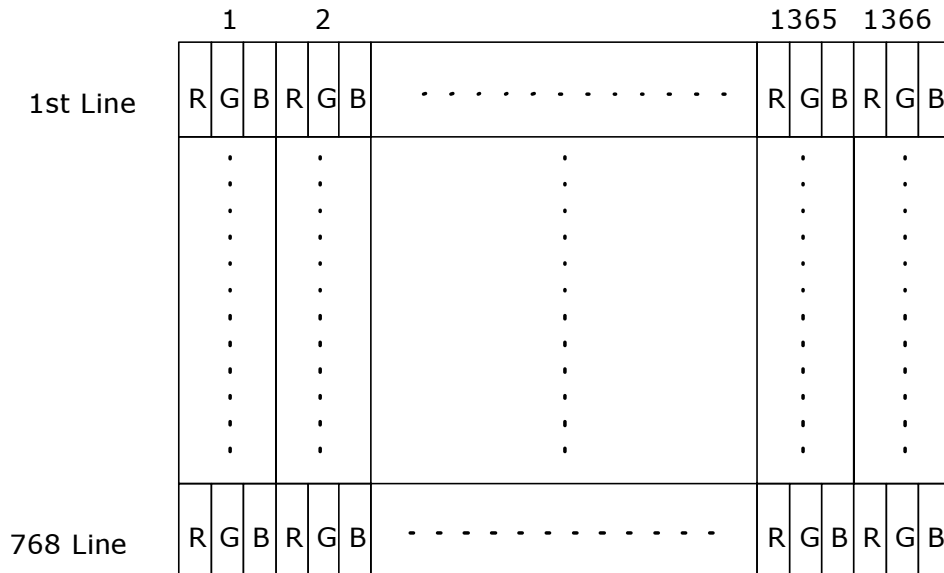
G156XW01 V0

AU OPTRONICS CORPORATION

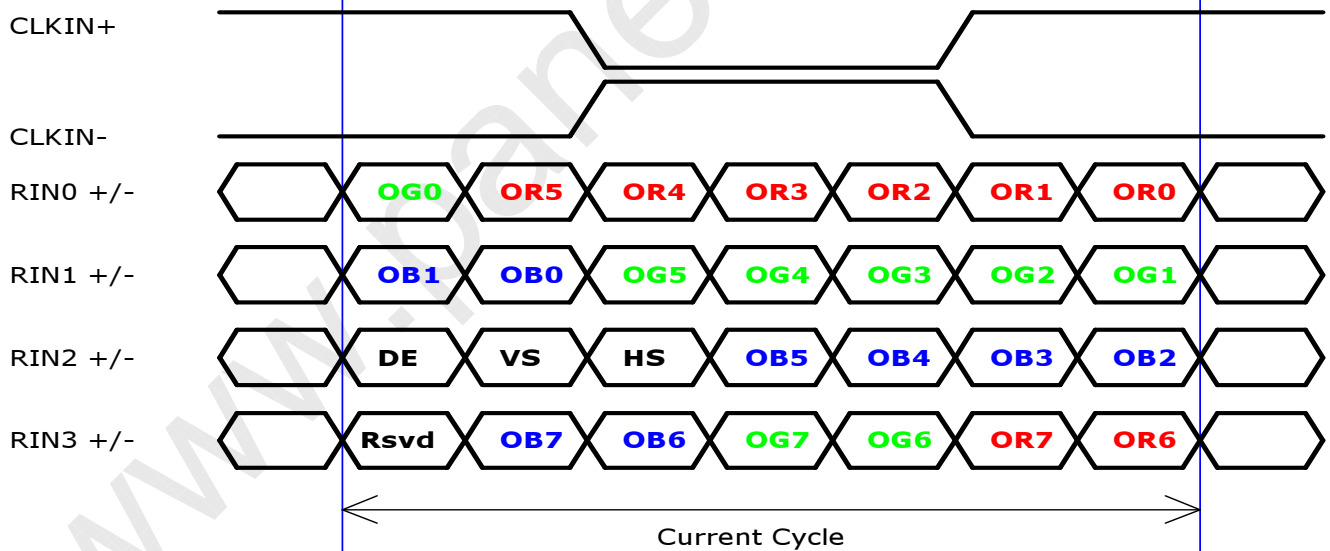
6.0 Signal Characteristic

6.1 Pixel Format Image

Following figure shows the relationship of the input signals and LCD pixel format.



6.2 The input data format



Note 1: R/G/B data 7:MSB, R/G/B data 0:LSB



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

6.3 Signal Description

The module using one LVDS receiver SN75LVDS82(Texas Instruments). LVDS is a differential signal technology for LCD interface and high speed data transfer device. LVDS transmitters shall be SN75LVDS83(negative edge sampling). The first LVDS port(RxOxxx) transmits odd pixels while the second LVDS port(RxExxx) transmits even pixels.

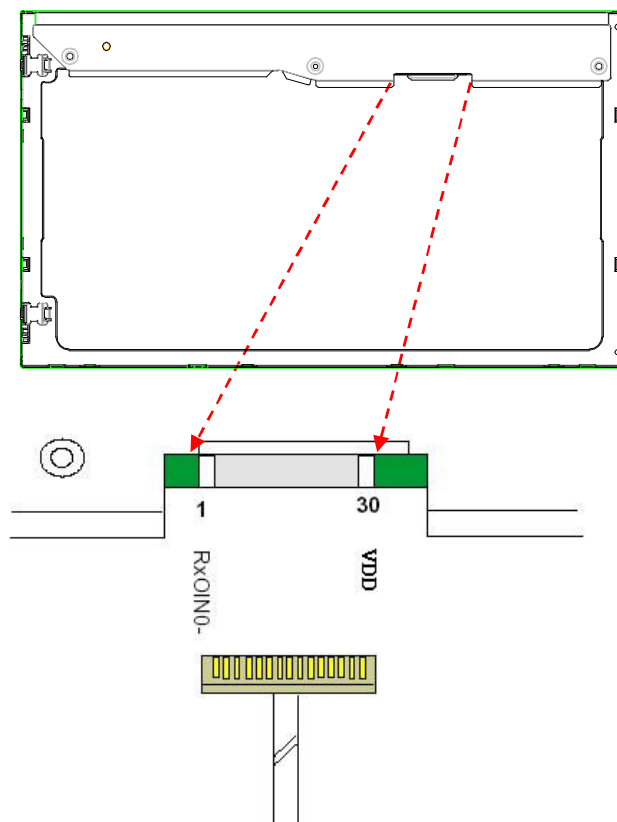
PIN #	SIGNAL NAME	DESCRIPTION
1	Reserved	No Connection
2	Reserved	No Connection
3	Reserved	No Connection
4	GND	Ground
5	RXIN0-	-LVDS Differential Data Input, CH0
6	RXIN0+	+LVDS Differential Data Input, CH0
7	GND	Ground
8	RXIN1-	-LVDS Differential Data Input, CH1
9	RXIN1+	+LVDS Differential Data Input, CH1
10	GND	Ground
11	RXIN2-	-LVDS Differential Data Input, CH2
12	RXIN2+	+LVDS Differential Data Input, CH2
13	GND	Ground
14	RXCLKIN-	-LVDS Differential Clock Input, CH3
15	RXCLKIN+	+LVDS Differential Clock Input, CH3
16	GND	Ground
17	RXIN3-	-LVDS Differential Data Input, CH3
18	RXIN3+	+LVDS Differential Data Input, CH3
19	GND	Ground
20	Reserved	Internal used (recommend no connection)
21	Reserved	Internal used (recommend no connection)
22	Reserved	Internal used (recommend no connection)
23	GND	Ground
24	GND	Ground
25	GND	Ground
26	AVDD	Power +5V, (typical)
27	AVDD	Power +5V, (typical)
28	AVDD	Power +5V, (typical)
29	AVDD	Power +5V, (typical)
30	AVDD	Power +5V, (typical)



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

Note1: Start from left side

6.4 Timing Characteristics

Basically, interface timing described here is not actual input timing of LCD module but close to output timing of SN75LVDS82DGG (Texas Instruments) or equivalent.

Item		Symbol	Min	Typ	Max	Unit
Data CLK		Tclk	60	76	90	[MHz]
H-section	Period	Th	1446	1560	1936	[Tclk]
	Display Area	Tdisp(h)	1366	1366	1366	[Tclk]
	Blanking	Tblk(h)	80	200	570	[Tclk]
V-section	Period	Tv	778	806	888	[Th]
	Display Area	Tdisp(v)	768	768	768	[Th]
	Blanking	Tblk(v)	10	38	120	[Th]
Frame Rate		F	50	60	75	[Hz]

Note : DE mode only

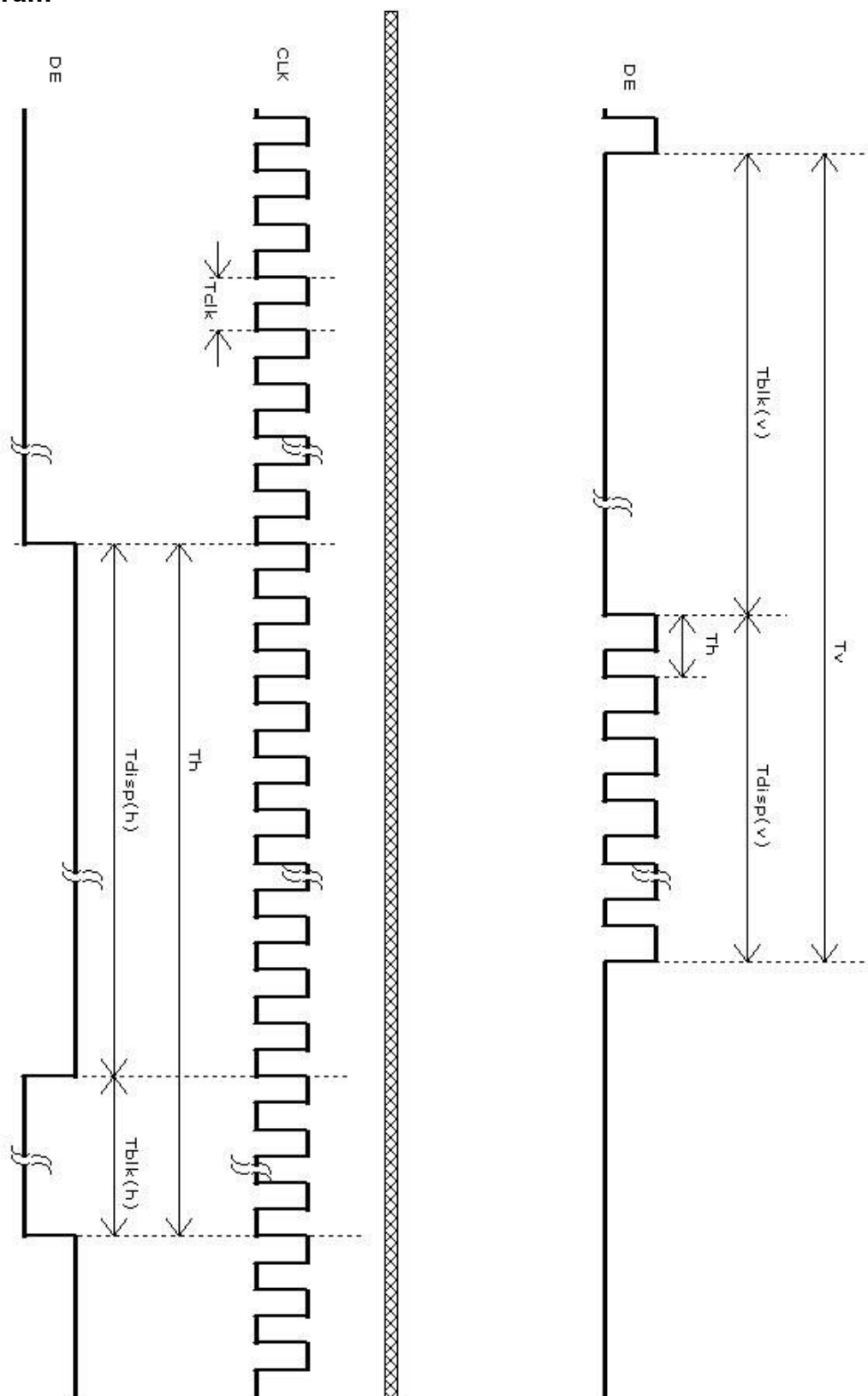


Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

6.5 Timing diagram





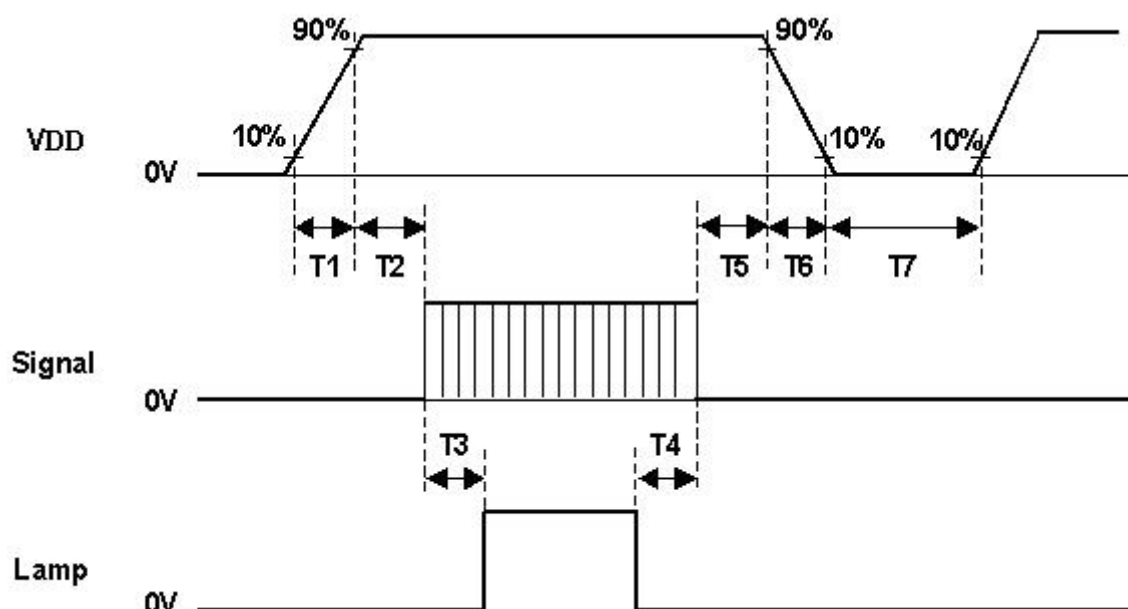
Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

6.6 Power ON/OFF Sequence

VDD power and lamp on/off sequence are as follows. Interface signals are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off.



Parameter	Value			Unit
	Min.	Typ.	Max.	
T1	0.5	-	10	[msec]
T2	0	-	50	[msec]
T3	200	-	-	[msec]
T4	100	-	-	[msec]
T5	0	16	50	[msec]
T6	-	-	100	[msec]
T7	1000	-	-	[msec]



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

7.0 Connector & Pin Assignment

Physical interface is described as for the connector on module. These connectors are capable of accommodating the following signals and will be following components.

7.1 TFT LCD Module

Connector Name / Designation	Interface Connector / Interface card
Manufacturer	JAE STM
Type Part Number	FI-XB30SSL-HF15 MSBKT2407P30HB
Mating Housing Part Number	FI-X30HL (Locked Type)

7.1.1 Pin Assignment

Pin#	Signal Name	Pin#	Signal Name
1	Reserved	2	Reserved
3	Reserved	4	GND
5	RXIN0-	6	RXIN0+
7	GND	8	RXIN1-
9	RXIN1+	10	GND
11	RXIN2-	12	RXIN2+
13	GND	14	RXCLKIN-
15	RXCLKIN+	16	GND
17	RXIN3-	18	RXIN3+
19	GND	20	Reserved
21	Reserved	22	Reserved
23	GND	24	GND
25	GND	26	AVDD
27	AVDD	28	AVDD
29	AVDD	30	AVDD



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

7.2 Backlight Unit

Physical interface is described as for the connector on module. These connectors are capable of accommodating the following signals and will be following components.

Connector Name / Designation	Lamp Connector / Backlight lamp
Manufacturer	CVILUX
Type Part Number	CP05T021PE0
Mating Type Part Number	YEONHO 35001HS-02L

7.2.1 Signal for Lamp connector

	Connector No.	Pin No.	Input	Color	Function
Upper	CN1	1	Hot1	Red	High Voltage
		2	Cold1	White	Low Voltage

	Connector No.	Pin No.	Input	Color	Function
Lower	CN2	1	Hot1	Red	High Voltage
		2	Cold1	White	Low Voltage



Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

8.0 Reliability Test

Environment test conditions are listed as following table.

Items	Required Condition	Note
Temperature Humidity Bias (THB)	Ta= 50□, 80%RH, 300hours	
High Temperature Operation (HTO)	Ta= 50□, 50%RH, 300hours	
Low Temperature Operation (LTO)	Ta= 0□, 300hours	
High Temperature Storage (HTS)	Ta= 60□, 300hours	
Low Temperature Storage (LTS)	Ta= -20□, 300hours	
Vibration Test (Non-operation)	Acceleration: 1.5 Grms Wave: Random Frequency: 10 - 200 Hz Duration: 30 Minutes each Axis (X, Y, Z)	
Shock Test (Non-operation)	Acceleration: 50 G Wave: Half-sine Active Time: 20 ms Direction: ±X, ±Y, ±Z (one time for each Axis)	
Drop Test	Height: 46 cm, package test	
Thermal Shock Test (TST)	-20□/30min, 60□/30min, 100 cycles	1
On/Off Test	On/10sec, Off/10sec, 30,000 cycles	
ESD (Electro Static Discharge)	Contact Discharge: ± 8KV, 150pF(330Ω) 1sec, 15 points, 25 times/ point.	2
	Air Discharge: ± 15KV, 150pF(330Ω) 1sec 15 points, 25 times/ point.	
Altitude Test	Operation:10,000 ft Non-Operation:30,000 ft	

Note 1: The TFT-LCD module will not sustain damage after being subjected to 100 cycles of rapid temperature change. A cycle of rapid temperature change consists of varying the temperature from -20℃ to 60℃, and back again. Power is not applied during the test. After temperature cycling, the unit is placed in normal room ambient for at least 4 hours before power on.

Note 2: EN61000-4-2, ESD class B: Certain performance degradation allowed
No data lost
Self-recoverable
No hardware failures.



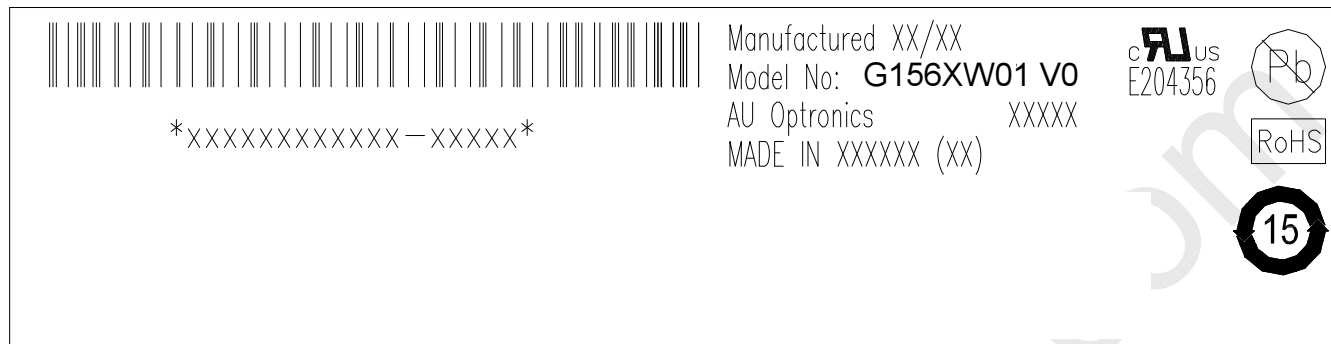
Product Specification

G156XW01 V0

AU OPTRONICS CORPORATION

9.0 Shipping Label

The label is on the panel as shown below:



Note 1: For Pb Free products, AUO will add  for identification.

Note 2: For RoHS compatible products, AUO will add  for identification.

Note 3: For China RoHS compatible products, AUO will add  for identification.

Note 4: The Green Mark will be presented only when the green documents have been ready by AUO Internal Green Team.

Technical drawing of a panel assembly, showing front and side views with dimensions and callouts.

Front View Dimensions:

- Overall Width: 1067.14
- Overall Height: 363.814.5
- Internal Width (Active Area): 344.2324.1
- Internal Height (Active Area): 347.544.5
- Internal Width (Bezel Opening): 193.5364.1
- Internal Height (Bezel Opening): 196.81.5
- Top Margin: 81.314.25
- Bottom Margin: 81.314.25
- Left Margin: 81.314.25
- Right Margin: 81.314.25

Side View Dimensions:

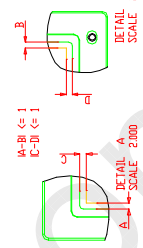
- Overall Depth: 106.714
- Internal Depth: 81.314.25

Callouts and Notes:

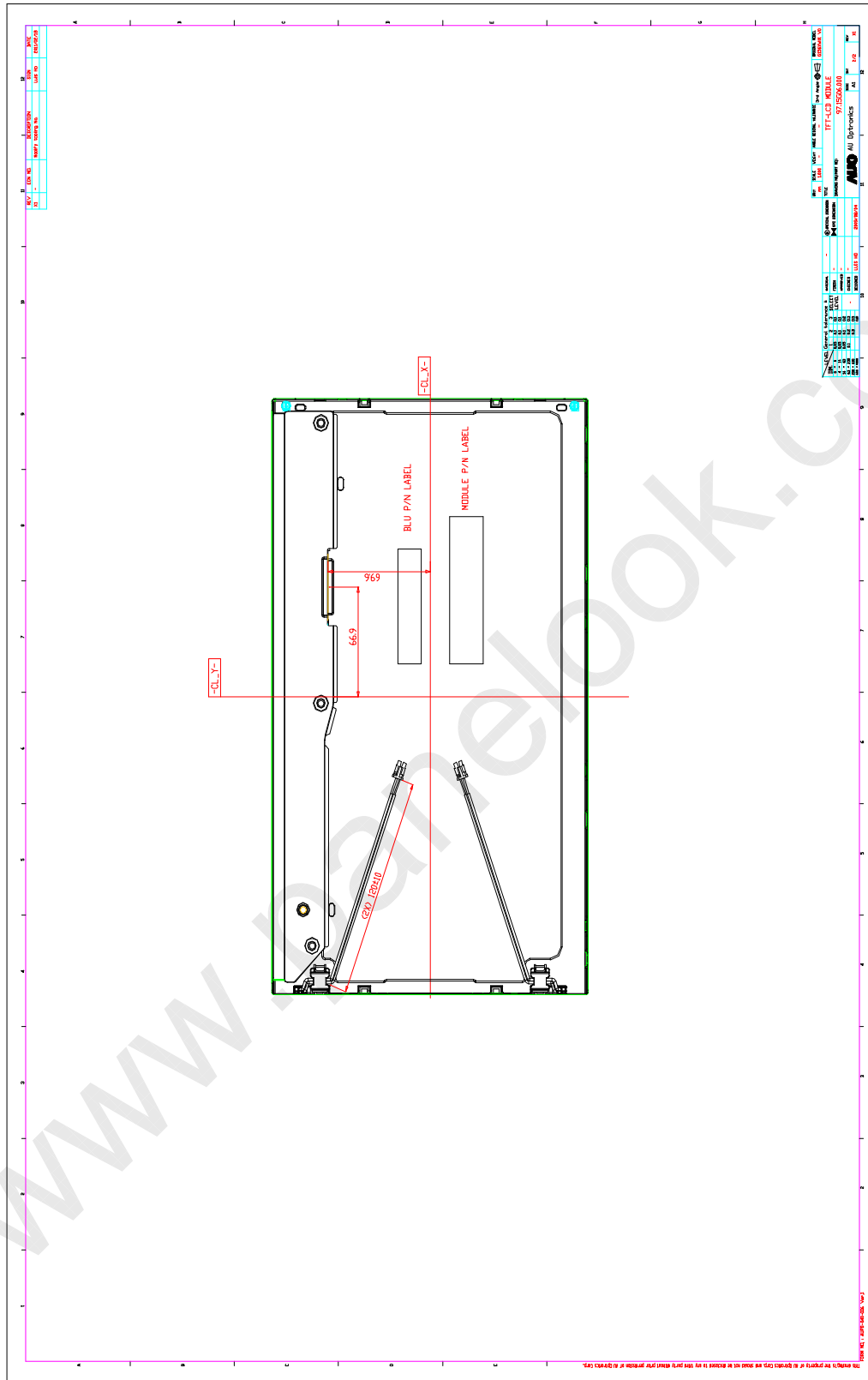
- 1. PANEL
- 2. 1/2" C
- 3. FT-XI
- 4. TOLER
- 5. THIS
- 6. TOROU
- AND

Other Labels:

- FAIL A
- SEE DETAIL B
- AUD
- CL- Y-

[illegible]

Ver 0.1



Ver 0.1